The 557th Weather Wing



CSAB F2F Ted Vroman: 29-30 Mar 17



Lt. Gen. Thomas S. Moorman Building





- COPC 557 WW Attendees: TD, 2 WXG/CC, and Mr. Rance
 - Present 557 WW Mission Brief, GALWEM/Prod 10 update, CCRI
- GOES-R/16: L-M modified 2 of 3 antennas to receive GOES-16 and installed MIVB Servers data flowing into building; working ingest of ABI data, integration into applications, and display on AFW-WEBS
 - Subscribe to AMVs (a.k.a. DMV) and ASR/CSR via WMO header bulletins
- Meteosat-8: Receiving via MIVB, feeding applications, displaying on AFW-WEBS, sending to FNMOC
- AF-NOAA Backup Services MOA:
 - Consolidates AWC/SPC, SWPC, and W-VAAC (3 appendices)
 - HAF (Mr. Stoffler) signature level
 - HAF awaiting NOAA comments; meeting w/ NWS (Tom Williams)





- Anticipate 1 Sep 2017 Command Cyber Readiness Inspection (CCRI)
- Continued Manual Failover to Backup COPC Circuit (78Y2 to 77LA)
- Submitted two SDPRs on 26 Jan
 - MODIS AMSU/AIRS for GALWEM (343 channels vs. current 300)
 - Soil Moisture Operational Products System (SMOPS) for 557 WW Land Data Assimilation System
- GALWEM: Operational goal deliver GALWEM FOC (Mar 2018)
 - Native 17 km UM, output at ¼ degree resolution
 - 4DVAR DA at 557 WW with locally sourced obs
 - All required post-processed parameters available to dissemination system





- Successful S-NPP Block 2.0 (including NDE2.0/PDA) Transition
 - After some issues data flowing to (and through) 557 WW routinely
 - ATMS HDF5 Block2.0 data sets FNMOC rcv'd from NOAA (Tom King)
- DMSP RTMS: shipping to FNMOC per their request
- AF Life Cycle Management Center Mr. Steven Lamb is OPR for funding of NESDIS Data Services Cost-Shares with 557 WW



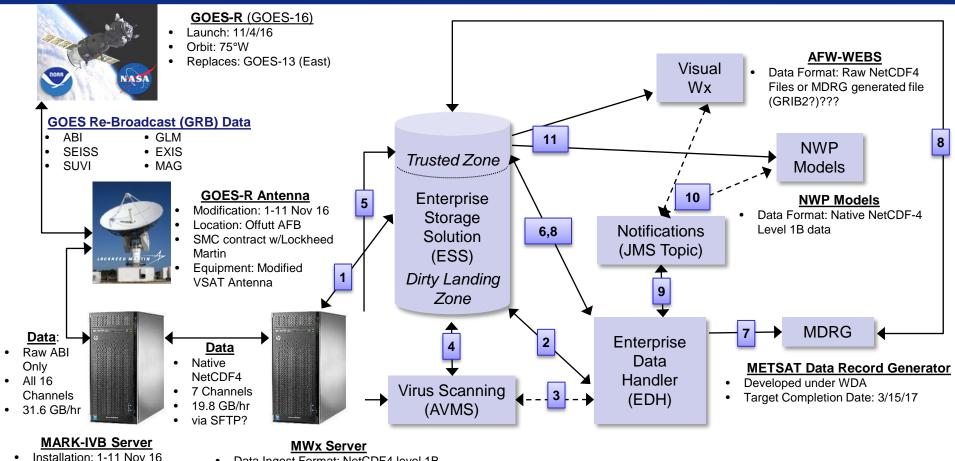


Backup Slides





GOES-R Data Flow



- Location: 557 WW
- SMC contract w/Lockheed Martin
- Equipment:
 - 1 Ingest Server
 - 2 Data Servers

- Data Ingest Format: NetCDF4 level 1B
- Ingest Intervals: 15 min
- IP Addresses: TBD

Last Updated: 9/13/2016



GOES-R Cont'd



1. Satellite/Sensors

Sensor(s): ABI, GLM, SEISS, EXIS, SUVI, Magnetometer

Channels: 7 of 16 channels

Cadence: 15 min

2. DRO/Comm Strategy

Via: Offutt AFB Mark IV-B Antenna & Server

Format(s): NetCDF4

Volume: 19.8 GB/hr (GRB) *ABI Only

Retention: 96 hours

3. Infrastructure

<u>Processing:</u> See Flow Diagram slide

Enclaves: Ingest via U, SFDB to SCI2, all visualized content to

U, S, & SCI1, all data products to U, S

<u>Sub-Systems</u>: MW/DW, CDFS II, CDFS II OSE, SFT, Prod 8, Prod

10, ESS, 2GDP (U-S), 2GDP (U-SCI1), 2GDP (U-SCI2), AFW-

WEBS, SWAFS, AVMS, EDH, JMS, MDRG

4. Applications/Products

<u>WWMCA:</u> Vis/IR Imagery, Lightning <u>WWMCA-M (SFT):</u> Vis/IR Imagery

LIS: Land Surface Temp

<u>LIS-AMPS (GEOPRECIP)</u>: IR Cloud Top Brightness Temps from CDFSII application, Same SDR just new METSAT <u>LIS-AMPS (CMORPH)</u>: IR Cloud Top Brightness Temps from CDFSII application, Same SDR just new METSAT

GALWEM: Cloud drift winds

AFW-WEBS: Existing Vis/IR/WV/Multispectral Imagery,

Lightning

SWAFS: Geomagnetic Field, TBD?

5. Dissemination

Subscriptions: XXX
Web Services: XXX
Web Pages: XXX
Mobile Apps: XXX